COMPLIANCE COMPONENT

DEFINITION	
Name	Java DataBase Connectivity (JDBC)
Description	**J**ava **D**ata**b**ase **C**onnectivity, or **JDBC**, is an API for the Java programming language that defines how a client may access a database. It provides methods for querying and updating data in a database. JDBC is oriented towards relational databases. JDBC is similar to ODBC, but is designed specifically for Java programs, whereas ODBC is language-independent. The Java 2 Platform includes the JDBC API together with an ODBC implementation of the API enabling connections to any relational database that supports ODBC. This driver is native code and not Java, and is closed source.
Rationale	Standardized and consistent JDBC design enables State of Missouri users to effectively bridge the transfer of data between multiple applications and databases.
Benefits	JDBC: • Is easily used by Java programmers • Enables compatibly between an extensive collection of applications across an array of platforms and databases. • Provides an alternative to writing System API programs.

ASSOCIATED ARCHITECTURE LEVELS	
Specify the Domain Name	Interoperability
Specify the Discipline Name	Data Exchange
Specify the Technology Area Name	Data Transfer Protocols/Standards
Specify the Product Component Name	

COMPLIANCE COMPONENT TYPE	
Document the Compliance Component Type	Guideline
Component Sub-type	

COMPLIANCE DETAIL	
State the Guideline, Standard or Legislation	**JDBC General** JDBC allows multiple implementations to exist and be used by the same application. The API provides a mechanism for dynamically loading the correct Java packages and registering them with the JDBC Driver Manager. The Driver Manager is used as a connection factory for creating JDBC connections. JDBC connections support creating and executing statements. These statements may be update statements such as SQL INSERT, UPDATE and DELETE or they may be query statements using the SELECT statement. Additionally, stored procedures may be invoked through a statement. **JDBC Use Guidelines (examples)** • Consider JDBC from any Java programs where access to a database

	(ODBC supported database) is required.
Document Source Reference #	Webopedia http://www.webopedia.com Wikipedia http://en.wikipedia.org

Compliance Sources			
Name		*Website*	
Contact Information			
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Contact Information			

KEYWORDS	
List Keywords	JDBC, ODBC, Java

COMPONENT CLASSIFICATION				
Provide the Classification	☐ *Emerging*	☒ *Current*	☐ *Twilight*	☐ *Sunset*
Sunset Date				

COMPONENT SUB-CLASSIFICATION		
Sub-Classification	Date	Additional Sub-Classification Information
☐ *Technology Watch*		
☐ *Variance*		
☐ *Conditional Use*		

Rationale for Component Classification	
Document the Rationale for Component Classification	

Migration Strategy	
Document the Migration Strategy	

Impact Position Statement	
Document the Position Statement on Impact	

CURRENT STATUS				
Provide the Current Status	☐ *In Development*	☐ *Under Review*	☒ *Approved*	☐ *Rejected*

AUDIT TRAIL			
Creation Date	6/9/2005	*Date Approved / Rejected*	10/11/05
Reason for Rejection			
Last Date Reviewed		*Last Date Updated*	
Reason for Update			